

>185.65546 67616.122187 577
>198.65546 65612.23-2829 955
>198.65546 65612.23-2829 95556
>152.698016 68818.28-2399 92356
>198.643636 78617.73-2289 783 56
>124.634546 78672.23-7779 683 56
>458.11142 83417.73-2397 876 56
>145.523286 64486.22-2689 986 56
>140.77060 32814.07-7060 328 56-20

MODEL 4240A

Automated Low Thermal Matrix Scanner - 40 Channel



- 2 Wire Inputs
- 2 Amp Capability
- Standard Cell Protection
- Automatic or Manual
- Low Thermal EMF's

MODEL INFORMATION

The Model 4240A is ideal for use in automated voltage and thermometry applications where a number of artifacts needed to be calibrated efficiently and accurately. The Model 4240A improves efficiency by eliminating the need to continually change connections when measuring multiple voltage sources. The Model 4240A features forty, two terminal inputs and two, two terminal outputs.

The relays selecting the inputs can be activated using both front panel key operation or using the IEEE488 Interface Bus. A corresponding LED indicates which channels are selected. Combined with Measurements International's 8000A Automated Potentiometer, the 4240A provides a means to create a completely automatic voltage measurement system. In addition, the Standard Cell Protection is provided to prevent selecting more than one channel per output.

Ultra sensitive, high efficiency, polarized relay technology is used to eliminate self heating in the relay in manufacturing this low thermal matrix scanner. The relays are the latest technology used in the telephone industry.

The relay boards are thermally isolated to maintain equilibrium in the switching areas.

The low thermal terminals are mechanically connected to the copper pads on the relay boards to reduce the thermals normally generated by soldered connections, thus reducing switching errors.

Interconnecting cable may also be ordered with the 4240A Voltage Matrix Scanner.

The interconnecting wire comes in either two or four conductor configurations. The wire maybe ordered in lengths with screens already attached. No 18 gauge solid copper, silver-plated, screened Teflon cable is used.

Specifications:

Number of Inputs	40
Operation	Matrix
Thermal EMF's	<50 nanovolts
Error Contribution	<20 nanovolts
Contact Configuration	Relay - Two Coil Latching
Max Carrying Current	2 Amps (DC)
Maximum Voltage	250 Volts (DC)
Maximum Switching Voltage	220 volts (DC)
Contact Resistance	<0.05 Ohms
Expected Relay Life	10 ⁸ Operations
Insulation Resistance	>10 ¹² Ohms
Inputs	Tellurium Copper - Rear Panel
Outputs	Tellurium Copper - Rear Panel
Manual/IEEE488	Both
Operating Environment	18 to 34°C, 10 to 80% RH
Warranty	1 Year Parts & Labor

Dimensions (L x W x H):

380 x 450 x 270 mm

Weight:

15 kg

Shipping Weight:

20Kg

Operating Power:

100, 120, 220, 240V - 50/60 Hz

Distributed By:

Corporate Headquarters

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